



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

D5801-1

Job Sheet 207403

POSITIVE  
RECALL

NO 20.02.20



Part No: D5801-1

Job Qty: 12 pcs

Part Name: Bushing



Part Weight: 0 lbs

Job Created: 2/25/20

Due Date: 3/6/20

Type: Stock

Status: New

Job Tracking No:

Created By: Jennifer Renwick

Description:

Priority: Medium

Note: URF 2020-525 DWG D5801 REV.A IPP REV.A NEW ISSUE 20.01.15 JV VERF:DD

Ship Via:

POSITIVE RECALL

EFFECTIVE AUTH

RELEASED DATE

Placed by m3k/k  
20.02.20

## Bill of Materials

## Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Hardinge - 1	12 pcs		3/6/20	0.50	0.55	Hardinge - 1		JR 20.03.03
110	QC 2	12 pcs		3/6/20	0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		
							QC 2 - 33		
							QC 2 - 35		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51		
							QC 2 - 52		
							QC 2 - 57		
							QC 2 - 62		JB 20.03.03
							QC 2 - 63		
							QC 2 - 8		
							QC 2 - 66		
							QC 2 - 64		
							QC 2 - 65		

PRIORITY



Container No: S260110



Part: D5801-1

Job No: 207403

Serial No/Batch: S260110

Revision: REV.A

Inspector:

Exp Date:

Instructions:

1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Date: 03/03/20

Plex 2/26/20 9:58 AM Dart.lajeunesse.marie

DAS  
62  
9-89DAS  
62  
9-89

				QC 2 - 5	
				QC 2 - 71	
				QC 2 - 73	
				QC 2 - 69	
				QC 2 - 76	
120	QC 8	12 pcs	3/6/20	0.00 0.00	QC 8 - 12
					QC 8 - 14
					QC 8 - 17
					QC 8 - 20
					QC 8 - 25
					QC 8 - 3
					QC 8 - 32
					QC 8 - 33
					QC 8 - 35
					QC 8 - 39
					QC 8 - 4
					QC 8 - 44
					QC 8 - 45
					QC 8 - 49
					QC 8 - 58
					QC 8 - 8
					QC 8 - 9
					QC 8 - 68
					QC 8 - 67
					QC 8 - 1 (A)
					QC 8 - 47
					QC 8 - 40
					QC 8 - 52
					QC 8 - 23
					QC 8 - 57
					QC 8 - 76
					QC 8 - 61
130	Packaging 3-1 - Stock - B4B	12 pcs	3/6/20	0.00 0.00	Packaging 3 - 1 - B4B
					Packaging 3 - 2 - B4B
					Packaging 3 - 3 - B4B
					Packaging 3 - 4 - B4B
					Packaging 3 - 5 - B4B
					Packaging 3 - 6 - B4B
					Packaging 3 - 7 - B4B
					Packaging 3 - 8 - B4B
					Packaging 3 - 9 - B4B
					Packaging 3 - 10 - B4B
					Packaging 3 - 11 - B4B
					Packaging 3 - 12 - B4B
					Packaging 3 - 13 - B4B
					Packaging 3 - 14 - B4B
					Packaging 3 - 15 - B4B
					Packaging 3 - 16 - B4B
					Packaging 3 - 17 - B4B
					Packaging 3 - 18 - B4B
					Packaging 3 - 19 - B4B
					Packaging 3 - 20 - B4B
					Packaging 3 - 21 - B4B
					Packaging 3 - 22 - B4B
					Packaging 3 - 23 - B4B
					Packaging 3 - 24 - B4B
					Packaging 3 - 25 - B4B
					Packaging 3 - 26 - B4B
					Packaging 3 - 27 - B4B

Am 20/03/05

BAG  
28  
9-89



2/26/2020

## [Dart Hawkesbury] Job Sheet - Lajeunesse, Marie

				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
				Packaging 3 - 37 - B4B	
140 QC 21 - SA	12 pcs	3/6/20	0.00 0.00	QC 21 - SA - 21	DA
				QC 21 - SA - 70	27
				QC 21 - SA - 53	25

Part Op 100 - 1-Machine as per folio F D 193 FOLIO REV: AA DWG REV: A 2-Debur

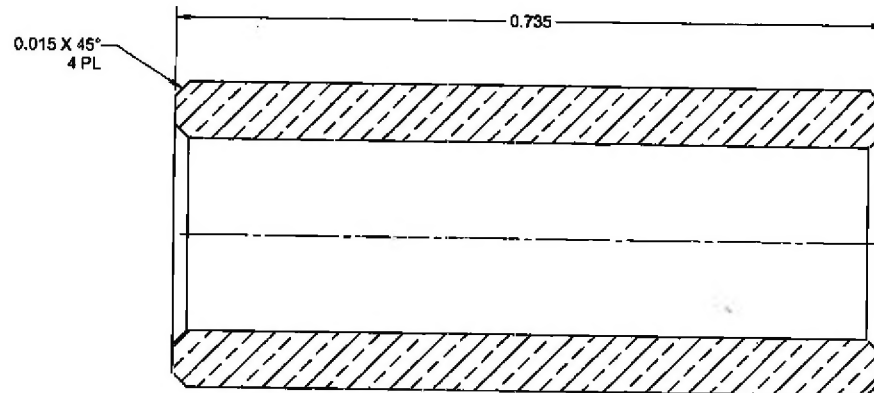
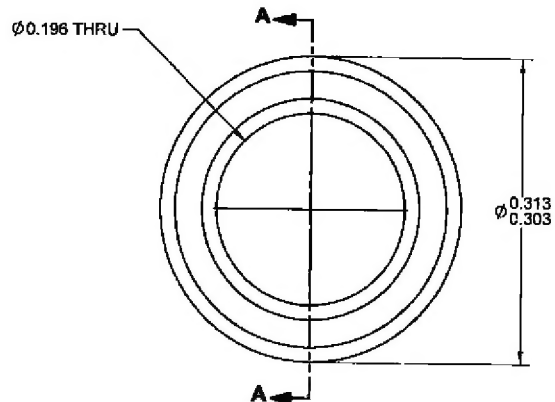
Descriptions: 110 - QC2- Inspect parts off machine FAI/FAIB  
 120 - (QC8- Inspect parts - second check)  
 130 - (Identify as per dwg & Stock Location: \_\_\_\_\_)  
 140 - (QC21- Final Inspection - Work Order Release)

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
MBRONZR0.375	Bronze Rod 0.375"	.8748 ft (.0729 ea)	100-Hardinge - 1	5259979

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Hardinge - 1	MBRONZR0.375	1	0	0

Part Specifications	
Specifications could not be found.	

Plex 2/26/20 9:58 AM Dart.lajeunesse.marie



**SECTION A-A**

**D5801-1 BUSHING**  
(DERIVED FROM AERO DESIGN P/N 36275-01)

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 207403 MJS  
20-02-26

**RELEASED**  
2020 FEB 19  
EOL 2020-02-19

UNDER REVIEW  
URF 2020-525 20.02.20 (NO)

- NOTES:**
- 1) MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR  
PER SAE 841 TYPE 1, CLASS A OR AMS 4805 OR ASTM B438 GRADE 1, TYPE 2 OR MIL-B-5687D TYPE 1, GRADE 1  
REF DART SPEC MBRONZR
  - 2) FINISH: NONE
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: IDENTIFY PER DART QSI 044
  - 7) WEIGHT: 0.01 lbs

APPROVED

REV.	NEW ISSUE	DESCRIPTION	BY	DATE
DESIGN	ZF			
DRAWN	ZF			
CHECKED	KPT			
MFG. APPR.	DD			
APPROVED	NO			
DE APPR.	CP			
DATE	20.01.10			

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER POHB045910



**Supplier:** MES002-VC  
Metaux Solutions  
2625 boul Jacques-Cartier Est  
Longueuil  
QC  
J4N 1L7 Canada  
Phone: 800 558 8858  
Fax: 514 633 8044

**PO No:** POHB045910

**PO Date:** 2/20/20

**Due Date:** 2/28/20

**Purchase Order**

**Revision:**

**Revision Date:**

**Issued By:**

Lavoie, Chantal  
Phone: 613-623-5200 Ext: 242  
Fax: 613-632-1053  
clavoie@dartaero.com

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pynt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

REVISED

## Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M304TR1.000W.035			304 Seamless Round Tubing 1.000 X .035W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269	Firmed -		2/28/20	40 ft	0 ft	40 ft	\$10.85/ft	\$434.00
									40 ft				
2		MBRONZR0.375		3" per pcs	Bronze Rod 0.375" : MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR AS PER SAE 841 TYPE 1, CLASS A OR AMS 4805 OR ASTM B438 GRADE 1, TYPE 2 OR MIL-B-5687D TYPE 1, GRADE 1	Firmed -		2/28/20	1 ft	0 ft	1 ft	\$93.20/ft	\$93.20
									1 ft				

Line Item Note 4 pcs of 3" = 1ft

**Grand Total:** \$527.20

## Shipping Order

27/02/2020

METAUX SOLUTIONS INC  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL, QUEBEC  
J4N 1L7 Tel.: 450 641-3330

Order : 150542  
Reference : PO:HB045910  
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD  
1270. ABERDEEN STREET  
HAWKESBURY, ONTARIO  
K6A 1X7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SST10356	SS TUB 1.000 X .035 316 SMLS	40		
	2 X-20 ***** HTnd18-322			
OLB36	OILITE BRONZE 3/8 DIA. X 3"	4		
	4 PCES ***** HT, KS005674356			
	SHIP JOURNEY COLLECT JP			

RECEIVED  
MAR 02 2020  
DART AEROSPACE LTD.

Shipping : \_\_\_\_\_  
Package No : \_\_\_\_\_  
Merchandise Received: \_\_\_\_\_

Ref: \_\_\_\_\_





L11112

MBRONZR 0.375

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR

SPECIFICATION: SAE 841 TYPE 1, CLASS A OR  
ASTM B438 OR  
ASTM B438 GRADE 1, TYPE 2 OR  
MIL-C-6370 TYPE 1, GRADE 1

PART NUMBER: MBRONZR.DDD  
DIA  
WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8 ROUND BAR = MBRONZR0.625

DAS  
12  
BR

RELEASED  
2011-07-19

REV.	NEW ISSUE	DESCRIPTION	BY	DATE
DESIGN	AS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA DRAWING NO. <b>MBRONZR</b> TITLE <b>BRONZE ROUND BAR</b>	REV. A	10.10.25
DRAWN	AS		SHEET 1 OF 1	
CHECKED	10		SCALE	
MFG. APPR.	10		NTS	
APPROVED	10			
DE APPR.	10			
DATE	10.10.25	COPYRIGHT © 2010 BY DART AEROSPACE LTD THE DESIGN OF THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.		



2625 boul. Jacques Cartier Est  
Longueuil, Québec  
J4N 1L7  
Tel: (450) 641-3330  
Fax: (450) 641-3332

**CERTIFICAT DE CONFORMITÉ**

DATE : 26 février 2020

**CLIENT : DART AEROSPACE LTS**  
**1270 ABERDEEN STREET**  
**HAWKESBURY, QUÉBEC K6A 1K7**

**RÉFÉRENCE :**

- VOTRE COMMANDE : POHB045910
- NOTRE NO DE COMMANDE : 150542

DAS  
82  
3-89

**ITEM 2 :**

**4 PCES OILITE IMPREGNATED SINTERED BRONZE 3/8 DIA. X 3" LONG**  
**HT : KS005674356**

Produit selon les spécifications suivantes : ASTM B438 (Grade 1 Type 2), AMS 4805,  
SAE 841, MILITARY MIL-B-5687D

Nous confirmons que le matériel fourni pour la commande ci-haut mentionné est  
conforme aux spécifications indiquées.

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

Job: _____  Part No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	<b>DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Water Jet <input type="checkbox"/>            Supplier <input type="checkbox"/>            Quality <input type="checkbox"/> </div> </div>		
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042)
<b>Description Work Order Deviation</b>		<b>Disposition</b>		
				Completed By
				Lead hand / Supervisor
				QC / QA Coordinator
<b>Root Cause</b>  <div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div>		<b>FAULT CATEGORY</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced  <input type="checkbox"/> Bending  <input type="checkbox"/> Crushing  <input type="checkbox"/> Cracks  <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist  <input type="checkbox"/> Marks/Chatter  <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination  <input type="checkbox"/> Misaligned/off center  <input type="checkbox"/> BOM/Route  <input type="checkbox"/> Broken/Damage/Defect  <input type="checkbox"/> Incomplete/Unclear Instructions  <input type="checkbox"/> Drill Holes  <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Folio/Program  <input type="checkbox"/> Grain Direction  <input type="checkbox"/> Weld  <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Out of Sequence  <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong  <input type="checkbox"/> Outside Tolerance  <input type="checkbox"/> Drawing  <input type="checkbox"/> Finish  <input type="checkbox"/> Part Lost/Missing  <input type="checkbox"/> Misread         </div> </div>		
Other/Details: _____				